## Amendments to the Claims:

This listing of claims will replace oil prior versions, and listings, of claims in the application

## Listing of Claims:

- 1-13. (cancelled)
- 19. (previously added) A reductant delivery system, comprising:

  an evaporator unit including at least a heating element:

  a mixing device having at least one inlet and at least one

  cutlet coupled to edid evaporator unit; and

  a controller for introducing reductant and air into said mixing

  device through said inlet, mixing said reductant and air,

  injecting said mixture of said reductant and said air through

  said outlet having an outlet area smaller than said mixing unit

  into said evaporator unit thereby causing evaporation or said

  reductant and air mixture, the reductant delivery system

  protruding into an exhaust yes flow of an internal combustion

  piscon engine of a mobile vehicle.
  - No. (previously added) The system as set forth in Claim 1 wherein caid reductant is hydrocarbon.
  - 21. (previously added) A method for vaporizing a substance in a reductant delivery system for an exhaust gas aftertreatment device, the system having at least a heating element, the method comprising:

    generating a mixture by mixing a predetermined amount of
    - reductant with a prodetermined amount of air, the reductant including hydrocarbon, and injecting said mixture into the reductant delivery system thereby causing said mixture to vaporize, the reductant delivery system protruding into an exhauct gas flow of an invernal combustion piston engine of a mobile vehicle upstream of said exhaust gas aftertreatment device.
  - 22. (previously added) The method ac set forth in Claim 21 wherein said reductant is hydrocarbon.

- 23. (previously added) The method as set forth in Claim XI wherein the exhaust gas afrentieatment device is an Active Lean NOx Catalyst (ALNC).
- 24. (previously added) The method as set forth in Claim 12 further comprising directing said vaporized mixture into caid ALNC.
- 25. (previously added) A method for controlling a reductant delivery system having at least a heating element, the system coupled upstream of an exhaust gas aftertreatment device of an internal combustion piscon\_ungine in a mobile vehicle, the method comprising:

injecting air into the system; vaporized mixture, said reductant including hydrocarbons; and directing said vaporized mixture into the exhaust gas aftertreatment device via said reductant delivery system, said reductant delivery system procluding into an exhaust gas stream from said internal combustion piston engine.

- 26. (previously added) The method as get forth in Claim 25 whoreis said reductant is hydrocarbon.
- 27. (previously added) The method as said forth in Claim 25 wherein the engine is a diesel engine.
- 28. (previously added) The method as cet forth in Claim 25 wherein the exhaust gas aftertreatment device is an ALNC.
  - 20. (previously added) A reductant delivery system, comprising:

    an evaporator unit including at least a heating element;
    a mixing device having at least one inlet and at least
    one outlet, compled to said evaporator unit;
    a controller for introducing reductant and air into said
    mixing device through said inlet, and injecting a mixture
    of said reductant and said air through said outlet into
    said evaporator unit thereby causing evaporation of said
    reductant and air mixture, wherein said reductant and air
    mixture contacts a surface of said heating element, and
    where said evaporator reductant and air enters exhaust
    gas of an internal combustion engine.